

MATH TOPICS COVERED IN EACH PROJECT

Amalgamation	<ul style="list-style-type: none"> ➤ Transformations <ul style="list-style-type: none"> • Rotations • Translations • Reflections • Dilation
Clay Cylinders	<ul style="list-style-type: none"> ➤ Surface Area/Volume <ul style="list-style-type: none"> • Net Construction • Measurement and Calculation ➤ Ratio <ul style="list-style-type: none"> • Percent Change
Cubism	<ul style="list-style-type: none"> ➤ Polygons <ul style="list-style-type: none"> • Classification • Construction ➤ Platonic and Archimedean Solids <ul style="list-style-type: none"> • Classification • Construction • Analysis
Golden Ratio	<ul style="list-style-type: none"> ➤ Ratio/Proportion <ul style="list-style-type: none"> • Introduction to Phi • Golden Ratio • Golden Triangle ➤ Compass Constructions <ul style="list-style-type: none"> • Bisecting Segments • Archimedes Spiral • Pentagon ➤ Measurement ➤ Fibonacci Numbers
Mandalas	<ul style="list-style-type: none"> ➤ Circles <ul style="list-style-type: none"> • Compass Constructions • Concentric Circles • Circumference • Arcs
Optical Illusions	<ul style="list-style-type: none"> ➤ Symmetry ➤ Patterns/Fibonacci Sequence ➤ Golden Ratio ➤ Measurement

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Origami	<ul style="list-style-type: none">➤ Polygon/Polyhedra<ul style="list-style-type: none">• Construction• Identification➤ Linear Geometry<ul style="list-style-type: none">• Parallel/Perpendicular lines
Perspective Drawings	<ul style="list-style-type: none">➤ Points, Lines, Planes and Angles➤ Perspective (One and Two Point)➤ Vanishing Points
Snowflake Geometry	<ul style="list-style-type: none">➤ Review of Geometric Principles<ul style="list-style-type: none">• Polygons• Lines/Segments/Midsegments• Angles• Area• Planes• Bisect
Geometric Treats	<ul style="list-style-type: none">➤ 3-Dimensional Shapes<ul style="list-style-type: none">• Identification/Classification• Terminology➤ Frustrum